
Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2007; month=12; day=12; hr=10; min=48; sec=5; ms=40;]

Validated By CRFValidator v 1.0.3

Application No: Version No: 10530843 2.1

Input Set:

Output Set:

Started: 2007-12-12 10:45:12.059 Finished:

2007-12-12 10:45:14.070

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 11 ms

Total Warnings: 10

> Total Errors: 6

No. of SeqIDs Defined: 12

> Actual SeqID Count: 12

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E	342	'n' position not defined found at POS: 2 SEQID(9)
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SEQUENCE LISTING

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<222> (1)..(930)
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<301> Blattner, F. R.
<302> The complete genome sequence of Escherichia coli K-12.
<303> Science
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<305> 5331
<306> 1453-1474
<307> 1997
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gaa gaa aac gtc ttt gtg atg aca act tct cgt gcg tct ggt cag gaa
                                                                    96
Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu
              20
att cgt cca ctt aag gtt ctg atc ctt aac ctg atg ccg aag aag att
                                                                    144
Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
gaa act gaa aat cag ttt ctg cgc ctg ctt tca aac tca cct ttg cag
Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
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                          55
                                              60
gtc gat att cag ctg ttg cgc atc gat tcc cgt gaa tcg cgc aac acg
Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
 65
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ccc gca gag cat ctg aac aac ttc tac tgt aac ttt gaa gat att cag
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Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
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90

95

85

gat	cag	aac	ttt	gac	ggt	ttg	att	gta	act	ggt	gcg	ccg	ctg	ggc	ctg	336
-	Gln			_		_		_				_	_		=	
1-			100	1-	1			105		1			110	1		
			100					103					110			
gtg	gag	ttt	aat	gat	gtc	gct	tac	tgg	ccg	cag	atc	aaa	cag	gtg	ctg	384
Val	Glu	Phe	Asn	Asp	Val	Ala	Tyr	Trp	Pro	Gln	Ile	Lys	Gln	Val	Leu	
		115					120					125				
aza	+ ~~	taa	222	ant.	aaa	at a	200	+ aa	200	ata	+++	at a	+ aa	+ ~~	aca	432
	tgg	_		_		_		_	_	_		_	_			402
GLu	Trp	Ser	гла	Asp	Hls	Val	Thr	Ser	Thr	Leu	Phe	Val	Сув	Trp	Ala	
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gta	cag	gcc	gcg	ctc	aat	atc	ctc	tac	ggc	att	cct	aag	caa	act	cgc	480
Val	Gln	Ala	Ala	Leu	Asn	Ile	Leu	Tyr	Gly	Ile	Pro	Lys	Gln	Thr	Arq	
145					150			_	-	155		_			160	
110					130					100					100	
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acc	gaa	aaa	ctc	tct	ggc	gtt	tac	gag	cat	cat	att	ctc	cat	cct	cat	528
Thr	Glu	Lys	Leu	Ser	Gly	Val	Tyr	Glu	His	His	Ile	Leu	His	Pro	His	
				165					170					175		
aca	ctt	cta	aca	cat	aac	ttt	σat	σat	tca	ttc	cta	αca	cca	cat	tca	576
	Leu	-		_			-	-			_	-	-		-	
AIG	шец	шец		Arg	OLY	rne	дзр	_	Der	rne	шец	AIG		111.5	Der	
			180					185					190			
cgc	tat	gct	gac	ttt	ccg	gca	gcg	ttg	att	cgt	gat	tac	acc	gat	ctg	624
Arg	Tyr	Ala	Asp	Phe	Pro	Ala	Ala	Leu	Ile	Arg	Asp	Tyr	Thr	Asp	Leu	
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gaa	att	cta	aca	gag	aca	gaa	gaa	aaa	gat	aca	tat	cta	+++	acc	agt	672
-		-	-			-	-		-	-		_		-	_	0 / 2
GIU	Ile	Leu	Ala	GIU	TIII		GIU	СТУ	Asp	АІА	_	ьeu	Pne	Ala	ser	
	210					215					220					
aaa	gat	aag	cgc	att	gcc	ttt	gtg	acg	ggc	cat	CCC	gaa	tat	gat	gcg	720
Lys	Asp	Lys	Arg	Ile	Ala	Phe	Val	Thr	Gly	His	Pro	Glu	Tyr	Asp	Ala	
225					230					235					240	
		~+~		~ ~ ~	~~~		++~	~~~	~ +			~~~		a+ a	~~~	760
	acg	_		_	-			_	_		-	-			_	768
GIn	Thr	Leu	Ala	GIn	GLu	Phe	Phe	Arg	Asp	Val	GLu	Ala	GLY	Leu	Asp	
				245					250					255		
ccg	gat	gta	ccg	tat	aac	tat	ttc	ccg	cac	aat	gat	ccg	caa	aat	aca	816
Pro	Asp	Val	Pro	Tvr	Asn	Tvr	Phe	Pro	His	Asn	Asp	Pro	Gln	Asn	Thr	
	-		260	_		_		265			_		270			
			200					200					270			
ccg	cga	gcg	agc	tgg	cgt	agt	cac	ggt	aat	tta	ctg	ttt	acc	aac	tgg	864
Pro	Arg	Ala	Ser	Trp	Arg	Ser	His	Gly	Asn	Leu	Leu	Phe	Thr	Asn	Trp	
		275					280					285				
ct c	aac	tat	tac	at c	tac	car	atc	acc	cca	tac	ga+	cta	caa	cac	ato	912
				-		_		_			-				-	
ьeu	Asn	тУТ	тАт	val	тУТ		тте	TIIL	LTO	тХт	-	ьe u	AT G	шта	rie C	
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Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
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Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
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Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
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Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu
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Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
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Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
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Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
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Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser
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Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
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Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
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                                       220
Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
225 230 235 240
Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
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Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
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265

260

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Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
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